



US-10-796-280-504

DB 841 TGAAGAAAAC1GTGGCAA1ATAACA1GTASTCCYGACGAGTTCACCTGCTCCAG1GGCCG 900

QY 901 CTGCATCTCCAGGAACCTTTGTATGCAATGGCCAGGATGACTGCAGCGATGGCAGTGAATGA 960

Db 901 ||||| CTGCATCTCCAGGAAC TTGTATGCAATGGCCAGGATGACTGCAGCGATGGCAGTGATGA 960  
 Qy 961 GCTGGAGCTGTGCCCGCCCAACCTGTGGCGCCCATGAGTTCCAGTGCAGCACCTCCTCCTG 1020  
 Db 961 GCTGGAGCTGTGCCCGCCCAACCTGTGGCGCCCATGAGTTCCAGTGCAGCACCTCCTCCTG 1020  
 Qy 1021 CATCCCCATCAGCTGGGTATGCGACGATGATGCAGACTGCTCCGACCAATCTGATGAGTC 1080  
 Db 1021 CATCCCCATCAGCTGGGTATGCGACGATGATGCAGACTGCTCCGACCAATCTGATGAGTC 1080  
 Qy 1081 CCTGGAGCAGTGTGGCCGTCAGCCAGTCATACACACCAAGTGTCCAGCCAGCGAAATCCA 1140  
 Db 1081 CCTGGAGCAGTGTGGCCGTCAGCCAGTCATACACACCAAGTGTCCAGCCAGCGAAATCCA 1140  
 Qy 1141 GTGCGGCTCTGGCGAGTGCATCCATAAGAAGTGGCGATGTGATGGGGACCTGACTGCAA 1200  
 Db 1141 GTGCGGCTCTGGCGAGTGCATCCATAAGAAGTGGCGATGTGATGGGGACCTGACTGCAA 1200  
 Qy 1201 GGATGGCAGTGATGAGGTCAACTGTCCCTCTCGAACTTGCCGACCTGACCAATTTGAATG 1260  
 Db 1201 GGATGGCAGTGATGAGGTCAACTGTCCCTCTCGAACTTGCCGACCTGACCAATTTGAATG 1260  
 Qy 1261 TGAGGATGGCAGCTGCATCCATGGCAGCAGGCGAGTGAATGGTATCCGAGACTGTGTCTGA 1320  
 Db 1261 TGAGGATGGCAGCTGCATCCATGGCAGCAGGCGAGTGAATGGTATCCGAGACTGTGTCTGA 1320  
 Qy 1321 TGGTTCCGATGAAGTCAACTGCAAAAATGTCAATCAGTGCTTGGGCCCTGGAAAATTCAA 1380  
 Db 1321 TGGTTCCGATGAAGTCAACTGCAAAAATGTCAATCAGTGCTTGGGCCCTGGAAAATTCAA 1380  
 Qy 1381 GTGCAGAAGTGGAGAATGCATAGATATCAGCAAAGTATGTAACCAAGGAGCAGGACTGCAG 1440  
 Db 1381 GTGCAGAAGTGGAGAATGCATAGATATCAGCAAAGTATGTAACCAAGGAGCAGGACTGCAG 1440  
 Qy 1441 GGACTGGAGTGATGAGCCCTGAAAGAGTGTATATAAACGAATGCTTGGTAAATAATGG 1500  
 Db 1441 GGACTGGAGTGATGAGCCCTGAAAGAGTGTATATAAACGAATGCTTGGTAAATAATGG 1500  
 Qy 1501 TGGATGTCTCATATCTGCAAAGACCTAGTTATAGGCTACGAGTGTGACTGTGCAGCTGG 1560  
 Db 1501 TGGATGTCTCATATCTGCAAAGACCTAGTTATAGGCTACRAGTGTGACTGTGCAGCTGG 1560  
 Qy 1561 GTTTGAACTGATAGATAGGAAAACCTGTGGAGATATTGATGAATGCCAAAATCCAGGAAT 1620  
 Db 1561 GTTTGAACTGATAGATAGGAAAACCTGTGGAGATATTGATGAATGCCAAAATCCAGGAAT 1620  
 Qy 1621 CTCGAGTCAAATTTGTATCAACTTAAAAGGCGGTTACAAGTGTGAATGTAGTCGTGGCTA 1680  
 Db 1621 CTCGAGTCAAATTTGTATCAACTTAAAAGGCGGTTACAAGTGTGAATGTAGTCGTGGCTA 1680  
 Qy 1681 TCAAATGGATCTTGCTACTGGCGTGTGCAAGGCAGTAGGCAAAGAGCCAAGTCTGATCTT 1740  
 Db 1681 TCAAATGGATCTTGCTACTGGCGTGTGCAAGGCAGTAGGCAAAGAGCCAAGTCTGATCTT 1740  
 Qy 1741 CACTAATCGAAGAGACATCAGGAAGATTGGCTTAGAGAGGAAAGAATATATCCAAC TAGT 1800  
 Db 1741 CACTAATCGAAGAGACATCAGGAAGATTGGCTTAGAGAGGAAAGAATATATCCAAC TAGT 1800  
 Qy 1801 TGAACAGCTAAGAAACACTGTGGCTCTCGATGCTGACATTGCTGCCAGAAAATATTCTG 1860  
 Db 1801 TGAACAGCTAAGAAACACTGTGGCTCTCGATGCTGACATTGCTGCCAGAAAATATTCTG 1860  
 Qy 1861 GGCCGATCTAAGCCAAAAGGCTATCTTCAGTGCCTCAATTGATGACAAGGTTGGTAGACA 1920  
 Db 1861 GGCYGATCTAAGCCAAAAGGCTATCTTCAGTGCCTCAATTGATGACAAGGTTGGTAGACA 1920  
 Qy 1921 TGT TAAAATGATCGACAATGTCTATAATCTGCAGCCATTGCTGTTGATTGGGTGTACAA 1980  
 Db 1921 TGT TAAAATGATCGACAATGTCTATAATCTGCAGCCATTGCTGTTGATTGGGTGTACAA 1980  
 Qy 1981 GACCATCTACTGGACTGATGCGGCTTCTAAGACTATTTCACTAGCTACCC TAGATGGAAC 2040  
 Db 1981 GACCATCTACTGGACTGATGCGGCTTCTAAGACTATTTCACTAGCTACCC TAGATGGAAC 2040  
 Qy 2041 CAAGAGGAAGTTCTGTTTAACTCTGACTTGCGAGAGCCTGCCTCCATAGCTGTGGACCC 2100  
 Db 2041 CAAGAGGAAGTTCTGTTTAACTCTGACTTGCGAGAGCCTGCCTCCATAGCTGTGGACCC 2100  
 Qy 2101 ACTGCTGGCTTTGTTTACTGGTCAGACTGGGGTGAACCAAGCTAAAA TAGAAAAAGCAGG 2160  
 Db 2101 ACTGCTGGCTTTGTTTACTGGTCAGACTGGGGTGAACCAAGCTAAAA TAGAAAAAGCAGG 2160  
 Qy 2161 AATGAATGGATTTCGATAGACGTCCTACTGGTGACAGCGGATATCCAGTGGCCTAACGGAAT 2220  
 Db 2161 AATGAATGGATTTCGATAGACGTCCTACTGGTGACAGCGGATATCCAGTGGCCTAAYGGAAT 2220  
 Qy 2221 TACACTTGACCTTATAAAAAGTCGCTCTATTGGCTTGATTCTAAGTTGCACATGTTATC 2280

Db	2221	 TACACTTGACCTTATAAAAAGTCGCCTCTATTGGCTTGATTCTAAGTTGCACATGTTATC	2280
Qy	2281	CAGCGTGGACTTGAATGGCCAAGATCGTAGGATAGTACTAAAGTCTCTGGAGTTCCTAGC	2340
Db	2281	CAGCGTGGACTTGAATGGCCAAGATCRTAGGATAGTACTAAAGTCTCTGGAGTTCCTAGC	2340
Qy	2341	TCATCCTCTTGCACTAACAAATATTTGAGGATCGTGCTACTGGATAGATGGGGAAAATGA	2400
Db	2341	TCATCCTCTTGCACTAACAAATATTTGAGGATCGTGCTACTGGATAGATGGGGAAAATGA	2400
Qy	2401	AGCAGTCTATGGTGCCAATAAATTCACCTGGATCAGAGCTAGCCACTCTAGTCAACAACCT	2460
Db	2401	AGCAGTCTATGGTGCCAATAAATTCACCTGGATCAGAGCTAGCCACTCTAGTCAACAACCT	2460
Qy	2461	GAATGATGCCCAAGACATCATTGTCTATCATGAACCTTGACAGCCATCAGGTAAAAATTG	2520
Db	2461	GAATGATGCCCAAGACATCATTGTCTATCATGAACCTTGACAGCCATCAGGTAAAAATTG	2520
Qy	2521	GTGTGAAGAAGACATGGAGAATGGAGGATGTGAATACCTATGCCTGCCAGCACACAGAT	2580
Db	2521	GTGTGAAGAAGACATGGAGAATGGAGGATGTGAATACCTATGCCTGCCAGCACACAGAT	2580
Qy	2581	TAATGATCACTCTCCAAAATATACCTGTTCTCTGCCAGTGGGTACAATGTAGAGGAAAA	2640
Db	2581	TAATGATCACTCTCCAAAATATACCTGTTCTCTGCCAGTGGGTACAATGTAGAGGAAAA	2640
Qy	2641	TGGCCGAGACTGTCAAAGGATCAATGTGACCACAGCAGTATCAGAGGTCAGTGTCCCCC	2700
Db	2641	TGGCCGAGACTGTCAAAGGATCAATGTGACCACAGCAGTATCAGAGGTCAGTGTCCCCC	2700
Qy	2701	AAAAGGGACTTCTGCCGCATGGGCCATTCTTCCTCTCTTGCTCTTAGTGATGGCAGCAGT	2760
Db	2701	AAAAGGGACTTCTGCCGCATGGGCCATTCTTCCTCTCTTGCTCTTAGTGATGGCAGCAGT	2760
Qy	2761	AGGTGGCTACTTGATGTGGCGGAATTGGCAACACAAGAACATGAAAAGCATGAACTTTGA	2820
Db	2761	AGGTGGCTACTTGATGTGGCGGAATTGGCAACACAAGAACATGAAAAGCATGAACTTTGA	2820
Qy	2821	CAATCCTGTGTACTTGAAAACCACTGAAGAGGACCTCTCCATAGACATTGGTAGACACAG	2880
Db	2821	CAATCCTGTGTACTTGAAAACCACTGAAGAGGACCTCTCCATAGACATTGGTAGACACAG	2880
Qy	2881	TGCTTCTGTTGGACACACGTACCCAGCAATATCAGTTGTAAGCACAGATGATGATCTAGC	2940
Db	2881	TGCTTCTGTTGGACACACGTACCCAGCAATATCAGTTGTAAGCACAGATGATGATCTAGC	2940
Qy	2941	TTGACTTCTGTGACAAATGTTGACCTTTGAGGTCTAAACAAATAATACCCCGTCGGAAT	3000
Db	2941	TTGACTTCTGTGACAAATGTTGACCTTTGAGGTCTAAACAAATAATACCCCGTCGGAAT	3000
Qy	3001	GGTAACCGAGCCAGCAGCTGAAGTCTCTTTTCTTCTCTCGGCTGGAAGAACATCAAGA	3060
Db	3001	GGTAACCGAGCCAGCAGCTGAAGTCTCTTTTCTTCTCTCGGCTGGAAGAACATCAAGA	3060
Qy	3061	TACCTTTGCGTGGATCAAGCTTGTTGACTTGACCGTTTTTATATTACTTTTGTAATAATT	3120
Db	3061	TACCTTTGCGTGGATCAAGCTTGTTGACTTGACCGTTTTTATATTACTTTTGTAATAATT	3120
Qy	3121	CTTGCCACATTCTACTTCAGCTTTGGATGTGGTTACCGAGTATCTGTAACCCCTTGAATT	3180
Db	3121	CTTRTCCACATTCTACTTCAGCTTTGGATGTGGTTACCGAGTATCTGTAACCCCTTGAATT	3180
Qy	3181	TCTAGACAGTATTGCCACCTCTGGCCAAAATATGCACCTTCCCTAGAAAAGCCATATTCCAG	3240
Db	3181	TCTAGACAGTATTGCCACCTCTGGCCAAAATATGCACCTTCCCTAGAAAAGCCATATTCCAG	3240
Qy	3241	CAGTGAAACTTTGTGCTATAGTGATACCACCTGTACATACATTGTATAGGCCATCTGTAA	3300
Db	3241	CAGTGAAACTTTGTGCTATAGTGATACCACCTGTACATACATTGTATAGGCCATCTGTAA	3300
Qy	3301	ATATCCCGGACAAAACGGGTTACTAAGATGAAATTGCCAAAAAATTTATAAACTAATTT	3360
Db	3301	ATATCCCGGACAAAACGGGTTACTAAGATGAAATTGCCAAAAAATTTATAAACTAATTT	3360
Qy	3361	TGTACGTATGAATG	3374
Db	3361	TGTACGTATGAATG	3374



Query Match 92.6%; Score 3125.6; DB 8; Length 3622;  
Best Local Similarity 96.2%; Pred. No. 0;  
Matches 3292; Conservative 0; Mismatches 35; Indels 96; Gaps 5;

Db 120 CAGCGCCTGCATTATTTCTGCCCGCAGGCTCGGCTTGCACTGCTGCTGCAGCCCGGGGA 179

Qy 192 GGTGGCTGGGTGGGTGGGGAGGAGACTGTGCAAGTTGTAGGGGAGGGGGTGCCCTCTTCT 251  
 |||||||  
 Db 180 GGTGGCTGGGTGGGTGGGGAGGAGACTGTGCAAG-TGTAGGGGAGGGGGTGCCCTCTTCT 238  
 |||||||  
 Qy 252 TCCCCGCTCCCTTCCCCCGCCAACCTCCTTCCCCTCCTTCTCCCCCTTTCCCCTCCCCGCC 311  
 |||||||  
 Db 239 TCCCCGCTCCCTTCCCCAGCCAAGTGGTTCCCCTCCTTCTCCCCCTTTCCCCTCCCAGCC 298  
 |||||||  
 Qy 312 CCCACCTTCTTCTCCTTTTCGGAAGGACTGGTAACCTGTCTGCGGAGCGAACGGCGGCG 371  
 |||||||  
 Db 299 CCCACCTTCTTCTCCTTTTCGGAAGGGCTGGTAACCTGTGTGCGGAGCGAA----- 350  
 |||||||  
 Qy 372 GCGGCGGCGGCGGCGGCACCATCCAGGCGGGCACCATGGGCACGTCCGCGCTCTGGGCGC 431  
 |||||||  
 Db 351 -CGGCGGCGGCGGCGGCACCATCCAGGCGGGCACCATGGGCACGTCCGCGCTCTGGGCGC 409  
 |||||||  
 Qy 432 TCTGGCTGCTGCTCGCGCTGTGCTGGGCGCCCCGGGAGAGCGGCGCCACCGGAACCGGGA 491  
 |||||||  
 Db 410 TCTGGCTGCTGCTCGCGCTGTGCTGGGCGCCCCGGGAGAGCGGCGCCACCGGAACCGGGA 469  
 |||||||  
 Qy 492 GAAAAGCCAAATGTGAACCCTCCCAATTCCAGTGCACAAATGGTCGCTGTATTACGCTGT 551  
 |||||||  
 Db 470 GAAAAGCCAAATGTGAACCCTCCCAATTCCAGTGCACAAATGGTCGCTGTATTACGCTGT 529  
 |||||||  
 Qy 552 TGTGGAAATGTGATGGGGATGAAGACTGTGTTGACGGCAGTGATGAAAAGAACTGTGTAA 611  
 |||||||  
 Db 530 TGTGGAAATGTGATGGGGATGAAGACTGTGTTGACGGCAGTGATGAAAAGAACTGTGTAA 589  
 |||||||  
 Qy 612 AGAAGACGTGTGCTGAATCTGACTTCGTGTGCAACAATGGCCAGTGTTCCAGCCGAT 671  
 |||||||  
 Db 590 AGAAGACGTGTGCTGAATCTGACTTCGTGTGCAACAATGGCCAGTGTTCCAGCCGAT 649  
 |||||||  
 Qy 672 GGAAGTGTGATGGAGATCCTGACTGCGAAGATGGTTTCAGATGAAAGCCCAGAACAGTGCC 731  
 |||||||  
 Db 650 GGAAGTGTGATGGAGATCCTGACTGCGAAGATGGTTTCAGATGAAAGCCCAGAACAGTGCC 709  
 |||||||  
 Qy 732 ATATGAGAACATGCCGCATACATGAAATCAGCTGTGGCGCCCATTCTACTCAGTGATCC 791  
 |||||||  
 Db 710 ATATGAGAACATGCCGCATACATGAAATCAGCTGTGGCGCCCATTCTACTCAGTGATCC 769  
 |||||||  
 Qy 792 CAGTGTCTGGAGATGTGATGGTGAAAATGATTGTGACAGTGGAGAAGATGAAGAAAAC 851  
 |||||||  
 Db 770 CAGTGTCTGGAGATGTGATGGTGAAAATGATTGTGACAGTGGAGAAGATGAAGAAAAC 829  
 |||||||  
 Qy 852 GTGGCAATATAACATGTAGTCCCGACGAGTTACCTGTCCAGTGGCCGCTGCATCTCCA 911  
 |||||||  
 Db 830 GTGGCAATATAACATGTAGTCCCGACGAGTTACCTGTCCAGTGGCCGCTGCATCTCCA 889  
 |||||||  
 Qy 912 GGAACCTTTGTATGCAATGGCCAGGATGACTGCAGCGATGGCAGTGATGAGCTGGACTGTG 971  
 |||||||  
 Db 890 GGAACCTTTGTATGCAATGGCCAGGATGACTGCAGCGATGGCAGTGATGAGCTGGACTGTG 949  
 |||||||  
 Qy 972 CCCCGCCAACCTGTGGCGCCCATGAGTTCCAGTGCAGCACCTCCTCCTGCATCCCCATCA 1031  
 |||||||  
 Db 950 CCCCGCCAACCTGTGGCGCCCATGAGTTCCAGTGCAGCACCTCCTCCTGCATCCCCATCA 1009  
 |||||||  
 Qy 1032 GCTGGGTATGCGACGATGATGCAGACTGCTCCGACCAATCTGATGAGTCCCTGGAGCAGT 1091  
 |||||||  
 Db 1010 GCTGGGTATGCGACGATGATGCAGACTGCTCCGACCAATCTGATGAGTCCCTGGAGCAGT 1069  
 |||||||  
 Qy 1092 GTGGCCGTGAGCCAGTCATACACACCAAGTGTCCAGCCAGCGAAATCCAGTGGGCTCTG 1151  
 |||||||  
 Db 1070 GTGGCCGTGAGCCAGTCATACACACCAAGTGTCCAGCCAGCGAAATCCAGTGGGCTCTG 1129  
 |||||||  
 Qy 1152 GCGAGTGCATCCATAAGAAGTGGCGATGTGATGGGGACCTGACTGCAAGGATGGCAGTG 1211  
 |||||||  
 Db 1130 GCGAGTGCATCCATAAGAAGTGGCGATGTGATGGGGACCTGACTGCAAGGATGGCAGTG 1189  
 |||||||  
 Qy 1212 ATGAGGTCAACTGTCCCTCTCGAACTTGCCGACCTGACCAATTTGAATGTGAGGATGGCA 1271  
 |||||||  
 Db 1190 ATGAGGTCAACTGTCCCTCTCGAACTTGCCGACCTGACCAATTTGAATGTGAGGATGGCA 1249  
 |||||||

Qy	1272	GCTGCATCCATGGCAGCAGGCAGTGTAATGGTATCCGAGACTGTGTCGATGGTTCCGATG	1331
Db	1250	GCTGCATCCATGGCAGCAGGCAGTGTAATGGTATCCGAGACTGTGTCGATGGTTCCGATG	1309
Qy	1332	AAGTCAACTGCAAAAATGTCAATCAGTGCTTGGGCCCTGGAAAATTCAAGTGCAGAAGTG	1391
Db	1310	AAGTCAACTGCAAAAATGTCAATCAGTGCTTGGGCCCTGGAAAATTCAAGTGCAGAAGTG	1369
Qy	1392	GAGAATGCATAGATATCAGCAAAGTATGTAACCAGGAGCAGGACTGCAGGGACTGGAGTG	1451
Db	1370	GAGAATGCATAGATATCAGCAAAGTATGTAACCAGGAGCAGGACTGCAGGGACTGGAGTG	1429
Qy	1452	ATGAGCCCCTGAAAGAGTGTATATAAACGAATGCTTGGTAAATAATGGTGGATGTTCTC	1511
Db	1430	ATGAGCCCCTGAAAGAGTGTATATAAACGAATGCTTGGTAAATAATGGTGGATGTTCTC	1489
Qy	1512	ATATCTGCAAAGACCTAGTTATAGGCTACGAGTGTGACTGTGCAGCTGGGTTTGAAGTGA	1571
Db	1490	ATATCTGCAAAGACCTAGTTATAGGCTACGAGTGTGACTGTGCAGCTGGGTTTGAAGTGA	1549
Qy	1572	TAGATAGGAAAACCTGTGGAGATATTGATGAATGCCAAAATCCAGGAATCTGCAGTCAAA	1631
Db	1550	TAGATAGGAAAACCTGTGGAGATATTGATGAATGCCAAAATCCAGGAATCTGCAGTCAAA	1609
Qy	1632	TTTGTATCAACTTAAAAGCGGTTACAAGTGTGAATGTAGTCGTGGCTATCAAATGGATC	1691
Db	1610	TTTGTATCAACTTAAAAGCGGTTACAAGTGTGAATGTAGTCGTGGCTATCAAATGGATC	1669
Qy	1692	TTGCTACTGGCGTGTGCAAGGCAGTAGGCAAAGAGCCAAGTCTGATCTTCACTAATCGAA	1751
Db	1670	TTGCTACTGGCGTGTGCAAGGCAGTAGGCAAAGAGCCAAGTCTGATCTTCACTAATCGAA	1729
Qy	1752	GAGACATCAGGAAGATTGGCTTAGAGAGGAAAGAATATATCCAAGTGTGAACAGCTAA	1811
Db	1730	GAGACATCAGGAAGATTGGCTTAGAGAGGAAAGAATATATCCAAGTGTGAACAGCTAA	1789
Qy	1812	GAAACACTGTGGCTCTCGATGCTGACATTGCTGCCAGAACTATTCTGGGCCGATCTAA	1871
Db	1790	GAAACACTGTGGCTCTCGATGCTGACATTGCTGCCAGAACTATTCTGGGCCGATCTAA	1849
Qy	1872	GCCAAAAGGCTATCTTCAGTGCCTCAATTGATGACAAGGTTGGTAGACATGTTAAATGA	1931
Db	1850	GCC-AAAGGCTATCTTCAGTGCCTCAATTGATGACAAGGTTGGTAGACATGTTAAATGA	1908
Qy	1932	TCGACAATGTCTATAATCCTGCAGCCATTGCTGTTGATTGGGTGTACAAGACCATCTACT	1991
Db	1909	TCGACAATGTCTATAATCCTGCAGCCATTGCTGTTGATTGGGTGTACAAGACCATCTACT	1968
Qy	1992	GGACTGATGCGGCTTCTAAGACTATTTTCAGTAGCTACCTAGATGGAACCAAGAGGAAGT	2051
Db	1969	GGACTGATGCGGCTTCTAAGACTATTTTCAGTAGCTACCTAGATGGAACCAAGAGGAAGT	2028
Qy	2052	TCCTGTTTAACTCTGACTTGCGAGAGCCTGCCTCCATAGCTGTGGACCCACTGTCTGGCT	2111
Db	2029	TCCTGTTTAACTCTGACTTGCGAGAGCCTGCCTCCATAGCTGTGGACCCACTGTCTGGCT	2088
Qy	2112	TTGTTTACTGGTCAGACTGGGGTGAACCAGCTAAAATAGAAAAAGCAGGAATGAATGGAT	2171
Db	2089	TTGTTTACTGGTCAGACTGGGGTGAACCAGCTAAAATAGAAAAAGCAGGAATGAATGGAT	2148
Qy	2172	TCGATAGACGTCCACTGGTGACAGCGGATATCCAGTGGCCTAACGGAATTACACTTGACC	2231
Db	2149	TCGATAGACGTCCACTGGTGACAGCGGATATCCAGTGGCCTAACGGAATTACACTTGACC	2208
Qy	2232	TTATAAAAAGTCGCCTCTATTGGCTTGATTCTAAGTTGCACATGTTATCCAGCGTGGACT	2291
Db	2209	TTATAAAAAGTCGCCTCTATTGGCTTGATTCTAAGTTGCACATGTTATCCAGCGTGGACT	2268
Qy	2292	TGAATGGCCAAGATCGTAGGATAGTACTAAAGTCTCTGGAGTTCCTAGCTCATCCTCTTG	2351

Db 2269 TGAATGGCCAAGATCGTAGGATAGTACTAAAGTCTCTGGAGTTCCTAGCTCATCCTCTTG 2328

Qy 2352 CACTAACAATATTTGAGGATCGTGTCTACTGGATAGATGGGGAAAATGAAGCAGTCTATG 2411  
|||||

Db 2329 CACTAACAATATTTGAGGATCGTGTCTACTGGATAGATGGGGAAAATGAAGCAGTCTATG 2388

Qy 2412 GTGCCAATAAATTCACCTGGATCAGAGCTAGCCACTCTAGTCAACAACCTGAATGATGCCC 2471  
|||||

Db 2389 GTGCCAATAAATTCACCTGGATCAGAGCTAGCCACTCTAGTCAACAACCTGAATGATGCCC 2448

Qy 2472 AAGACATCATTGTCTATCATGAACCTTGTACAGCCATCAGGTAAAAATTGGTGTGAAGAAG 2531  
|||||

Db 2449 AAGACATCATTGTCTATCATGAACCTTGTACAGCCATCAGGTAAAAATTGGTGTGAAGAAG 2508

Qy 2532 ACATGGAGAATGGAGGATGTGAATACCTATGCCTGCCAGCACCACAGATTAATGATCACT 2591  
|||||

Db 2509 ACATGGAGAATGGAGGATGTGAATACCTATGCCTGCCAGCACCACAGATTAATGATCACT 2568

Qy 2592 CTCCAAAATATACCTGTTCTGTCCAGTGGGTACAATGTAGAGGAAAATGGCCGAGACT 2651  
|||||

Db 2569 CTCCAAAATATACCTGTTCTGTCCAGTGGGTACAATGTAGAGGAAAATGGCCGAGACT 2628

Qy 2652 GTCAAA----- 2657  
|||||

Db 2629 GTCAAAGTACTGCAACTACTGTGACTTACAGTGAGACAAAAGATACGAACACACAGAAA 2688

Qy 2658 -----GGATCAATGTGACCACAGCAGTATCAGAGG 2687  
|||||

Db 2689 TTTCAGCAACTAGTGGACTAGTTCCTGGAGGGATCAATGTGACCACAGCAGTATCAGAGG 2748

Qy 2688 TCAGTGTTCCCCCAAAGGGACTTCTGCCGCATGGGCCATTCTTCTCTCTTGCTCTTAG 2747  
|||||

Db 2749 TCAGTGTTCCCCCAAAGGGACTTCTGCCGCATGGGCCATTCTTCTCTCTTGCTCTTAG 2808

Qy 2748 TGATGGCAGCAGTAGGTGGCTACTTGATGTGGCGGAATTGGCAACACAAGAACATGAAAA 2807  
|||||

Db 2809 TGATGGCAGCAGTAGGTGGCTACTTGATGTGGCGGAATTGGCAACACAAGAACATGAAAA 2868

Qy 2808 GCATGAACTTTGACAATCCTGTGTACTTGAAAACCACTGAAGAGGACCTCTCCATAGACA 2867  
|||||

Db 2869 GCATGAACTTTGACAATCCTGTGTACTTGAAAACCACTGAAGAGGACCTCTCCATAGACA 2928

Qy 2868 TTGGTAGACACAGTGCTTCTGTTGGACACACGTACCCAGCAATATCAGTTGTAAGCACAG 2927  
|||||

Db 2929 TTGGTAGACACAGTGCTTCTGTTGGACACACGTACCCAGCAATATCAGTTGTAAGCACAG 2988

Qy 2928 ATGATGATCTAGCTTGACTTCTGTGACAAATGTTGACCTTTGAGGTCTAAACAAATAATA 2987  
|||||

Db 2989 ATGATGATCTAGCTTGACTTCTGTGACAAATGTTGACCTTTGAGGTCTAAACAAATAATA 3048

Qy 2988 CCCCCGTCGGAATGGTAACCGAGCCAGCAGCTGAAGTCTCTTTTTCTTCTCTCGGCTGG 3047  
|||||

Db 3049 CCCCCGTCGGAATGGTAACCGAGCCAGCAGCTGAAGTCTCTTTTTCTTCTCTCGGCTGG 3108

Qy 3048 AAGAACATCAAGATACCTTTGCGTGGATCAAGCTTGTGTACTTGACCGTTTTTATATTAC 3107  
|||||

Db 3109 AAGAACATCAAGATACCTTTGCGTGGATCAAGCTTGTGTACTTGACCGTTTTTATATTAC 3168

Qy 3108 TTTTGTAATATTCTTGTCACATTCTACTTCAGCTTTGGATGTGGTTACCGAGTATCTG 3167  
|||||

Db 3169 TTTTGTAATATTCTTGTCACATTCTACTTCAGCTTTGGATGTGGTTACCGAGTATCTG 3228

Qy 3168 TAACCCTTGAATTTCTAGACAGTATTGCCACCTCTGGCCAAATATGCACTTTCCCTAGAA 3227  
|||||

Db 3229 TAACCCTTGAATTTCTAGACAGTATTGCCACCTCTGGCCAAATATGCACTTTCCCTAGAA 3288

Qy 3228 AGCCATATTCCAGCAGTGAACTTGTGCTATAGTGATATACCACCTGTACATACATTGTAT 3287  
|||||

Db 3289 AGCCATATTCCAGCAGTGAACTTGTGCTATAGTGATATACCACCTGTACATACATTGTAT 3348

Qy 3288 AGGCCATCTGTAAATATCCCGGACAAAACGGGTACTAAGATGAAATTGCCAAAAAAATT 3347

|||||

Db3349AGGCCATCTGTAAATATCCCAGAGAACAATCACTATTCTTAAGCACTTGAAAAATATTTC3408

Qy3348TAT3350

Db3409TAT3411